

ART 34 AMBT

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AMENDED CLAIMS

(110)

1. A method for fermenting a bacterium, producing an enzyme of interest, in a culture
5 medium of at least 50 litres, comprising:
adding one or more compounds selected from the group consisting of 1,2-propandiol, 1,3-
propandiol, ethylene glycol, trehalose, xylitol, arabitol, dulcitol, mannitol, erythritol, cellobiose,
sorbitol and a polyether having an average molecular weight less than 1000, to the culture
medium before and/or during fermentation, wherein the compound is low metabolizable
10 measured by $(OD_{III}-OD_{II})/(OD_I-OD_{II}) < 25\%$ as defined herein.
2. The method according to claim 1, wherein the bacterium is a *Bacillus* strain.
3. The method according to claim 1, wherein the enzyme is a hydrolase (class EC 3
15 according to Enzyme Nomenclature).
4. The method according to claim 1, wherein the compound is added in an amount of least
0.1 % (w/w) of the culture medium.
- 20 5. The method according to claim 1, wherein the compound is 1,2-propandiol.
6. The method according to claim 1, wherein in addition to the compound a salt is added to
the fermentation medium.
- 25 7. The method according to claim 6, wherein the salt is selected from the group consisting of
a chloride, a sulphate, a phosphate, a nitrate, and an ammonium salt.
8. The method according to claim 1, wherein the enzyme of interest is recovered.
- 30 9. The method according to claim 1, wherein the enzyme is recovered after removal of the
bacterium.